

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT

```

LL          IIIII
LL          IIIII
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LLLLLLLLLLL IIIII
LLLLLLLLLLL IIIII

SSSSSSSSS
SSSSSSSSS
SS
SS
SS
SS
SSSSSS
SSSSSS
SS
SS
SS
SS
SSSSSSSSS
SSSSSSSSS

```

```
0001 0 XTITLE 'EDT$CHMMESS - output a message'
0002 0 MODULE EDT$CHMMESS (
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0011 1 * ALL RIGHTS RESERVED.
0012 1 *
0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0018 1 * TRANSFERRED.
0019 1 *
0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0022 1 * CORPORATION.
0023 1 *
0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This module outputs a message on the last line of the terminal.
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 04-Feb-1981. This module was created by
0045 1 extracting the routine EDT$$OUT_MSG from module CHANGE.BLI.
0046 1 1-002 - Regularize headers. JBS 03-Mar-1981
0047 1 1-003 - Make this routine general for messages or strings. SMB 30-Jun-1982
0048 1 1-004 - Remove setting to TI_WRSTR in case HCPY change mode. SMB 02-Jul-1982
0049 1 1-005 - Set EDT$$G_LASTMSG. JBS 05-Jul-1982
0050 1 1-006 - Call EDT$$FMT_STR instead of EDT$$FMT_LIT, so EDT$$G_PRV_COL will be
0051 1 kept up to date. JBS 05-Oct-1982
0052 1 1-007 - Don't clear EDT$$G_SCR_CHGD. JBS 09-Oct-1982
0053 1 1-008 - Bypass most of the fancy stuff if we are in hardcopy change mode. JBS 16-Nov-1982
0054 1 1-009 - Check for terminal type unkown also. SMB 03-Dec-1982
0055 1 1-010 - Treat message number 0 as meaning no message. JBS 01-Apr-1983
0056 1
0057 1
```


EDT\$CHMMESS
V04-000

EDT\$CHMMESS - output a message
Declarations

1 2
16-Sep-1984 00:04:03
14-Sep-1984 12:22:38

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMMESS.BLI;1 Page 2 (2)

```

59      0058 1  %SBTTL 'Declarations'
60      0059 1  :
61      0060 1  :   TABLE OF CONTENTS:
62      0061 1  :
63      0062 1  :
64      0063 1  :   REQUIRE 'EDT$SRC:TRAROUNAM';
65      0502 1  :
66      0503 1  :   FORWARD ROUTINE
67      0504 1  :       EDT$OUT_MSG : NOVALUE;
68      0505 1  :
69      0506 1  :
70      0507 1  :   INCLUDE FILES:
71      0508 1  :
72      0509 1  :
73      0510 1  :   REQUIRE 'EDT$SRC:EDTREQ';
74      0645 1  :
75      0646 1  :
76      0647 1  :   MACROS:
77      0648 1  :
78      0649 1  :       NONE
79      0650 1  :
80      0651 1  :   EQUATED SYMBOLS:
81      0652 1  :
82      0653 1  :       NONE
83      0654 1  :
84      0655 1  :   OWN STORAGE:
85      0656 1  :
86      0657 1  :       NONE
87      0658 1  :
88      0659 1  :   EXTERNAL REFERENCES:
89      0660 1  :
90      0661 1  :       In the routine
```

! Output a message on the last line of the terminal

```

92      0662 1 %SBTTL 'EDT$$OUT_MSG - output a message'
93      0663 1
94      0664 1 GLOBAL ROUTINE EDT$$OUT_MSG (
95      0665 1     POS,
96      0666 1     MESS,
97      0667 1     ADDR,
98      0668 1     LEN
99      0669 1 ) : NOVALUE =
100     0670 1
101     0671 1 !++
102     0672 1 ! FUNCTIONAL DESCRIPTION:
103     0673 1
104     0674 1 !     This routine outputs a message on the last line of the terminal.
105     0675 1 !     The input parameters are the line position for the message,
106     0676 1 !     the message number (if it is a message), or the message string and
107     0677 1 !     its length if no message number is present.
108     0678 1
109     0679 1 ! FORMAL PARAMETERS:
110     0680 1
111     0681 1 !     POS
112     0682 1 !         The line number on which to print message
113     0683 1 !     MESS
114     0684 1 !         The number of the message to output
115     0685 1 !     ADDR
116     0686 1 !         The address of a string message
117     0687 1 !     LEN
118     0688 1 !         The length of the string message
119     0689 1 ! IMPLICIT INPUTS:
120     0690 1
121     0691 1 !     EDT$$A_FMT_WRRUT
122     0692 1 !     EDT$$G_MESSAGE_LINE
123     0693 1 !     EDT$$G_TI_TYP
124     0694 1
125     0695 1 ! IMPLICIT OUTPUTS:
126     0696 1
127     0697 1 !     EDT$$G_PRV_COL
128     0698 1 !     EDT$$G_TIN_ECHOPOS
129     0699 1 !     EDT$$G_MSGFLG
130     0700 1 !     EDT$$G_LASTMSG
131     0701 1
132     0702 1 ! ROUTINE VALUE:
133     0703 1
134     0704 1 !     NONE
135     0705 1
136     0706 1 ! SIDE EFFECTS:
137     0707 1
138     0708 1 !     NONE
139     0709 1
140     0710 1 ! --
141     0711 1
142     0712 2 BEGIN
143     0713 2
144     0714 2 EXTERNAL ROUTINE
145     0715 2 EDT$$STOP_WKINGMSG,
146     0716 2 EDT$$FMT_STR,
147     0717 2 EDT$$OUT_FMTBUF,
148     0718 2 EDT$$SC_POSCSIF,

```

EDT\$CHMMESS
V04-000

EDT\$CHMMESS - output a message
EDT\$OUT_MSG - output a message

K 2
16-Sep-1984 00:04:03
14-Sep-1984 12:22:38

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMMESS.BLI;1
Page 4
(3)

```

149 0719 2      EDT$SSC_ERATOEOL,      ! Erase to end of line
150 0720      EDT$SSC_REVID,          ! Start reverse video
151 0721      EDT$MSG_TOSTR;          ! Get message text
152 0722
153 0723      EXTERNAL
154 0724      EDT$G_MESSAGE_LINE,      ! Message line
155 0725      EDT$G_TIN_ECHOPOS,      ! Column to start message echo
156 0726      EDT$G_MSGFLG,          ! 1 = erase the message line on the next keystroke
157 0727      EDT$G_PRV_COL,          ! Previous column number.
158 0728      EDT$G_LASTMSG,          ! The last message printed
159 0729      EDT$G_TI_TYP;            ! The type of the terminals
160 0730
161 0731      EDT$STOP_WKINGMSG ();
162 0732
163 0733      + If the message is being printed on the last line, then we want it to
164 0734      stay there until the user hits a key, but we don't want to issue the
165 0735      PRTC message.
166 0736      -
167 0737
168 0738      IF (.POS EQL .EDT$G_MESSAGE_LINE + 1)
169 0739      THEN
170 0740      BEGIN
171 0741      EDT$G_TIN_ECHOPOS = 0;
172 0742      EDT$G_MSGFLG = 1;
173 0743      END;
174 0744
175 0745      +
176 0746      - Don't do anything fancy if this is a hard copy terminal.
177 0747
178 0748
179 0749      IF (.EDT$G_TI_TYP NEQ TERM_HCPY) AND (.EDT$G_TI_TYP NEQ TERM_UNKNOWN)
180 0750      THEN
181 0751      BEGIN
182 0752      +
183 0753      - Force the cursor to the indicated line and column
184 0754      EDT$SSC_POSCSIF (.POS, .EDT$G_TIN_ECHOPOS);
185 0755      +
186 0756      - Erase the line.
187 0757      EDT$SSC_ERATOEOL ();
188 0758      +
189 0759      - Turn reverse video on.
190 0760      EDT$SSC_REVID ();
191 0761      END;
192 0762
193 0763      +
194 0764      - Get the message.
195 0765
196 0766
197 0767
198 0768
199 0769
200 0770      IF (.LEN NEQ 0)
201 0771      THEN
202 0772      BEGIN
203 0773      EDT$FMT_STR (.ADDR, .LEN);
204 0774      EDT$G_LASTMSG = 1;
205 0775      END
```


EDT\$CHMMESS
V04-000

EDT\$CHMMESS - output a message
EDT\$\$OUT_MSG - output a message

L 2
16-Sep-1984 00:04:03
14-Sep-1984 12:22:38

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMMESS.BLI;1 Page 5
(3)

**F

```

: 206      0776      2      ELSE
: 207      0777      2
: 208      0778      2      IF (.MESS NEQ 0)
: 209      0779      2      THEN
: 210      0780      2      BEGIN
: 211      0781      2      EDT$$MSG_TOSTR (.MESS);
: 212      0782      2      EDT$$G_LASTMSG = .MESS;
: 213      0783      2      END;
: 214      0784      2
: 215      0785      2      +
: 216      0786      2      - Write out the buffer.
: 217      0787      2
: 218      0788      2      EDT$$OUT_FMTBUF ();
: 219      0789      1      END;

```

! of routine EDT\$\$OUT_MSG

.TITLE EDT\$CHMMESS EDT\$CHMMESS - output a message
.IDENT \V04-000\

.EXTRN EDT\$\$STOP WKINGMSG
.EXTRN EDT\$\$FMT_STR, EDT\$\$OUT_FMTBUF
.EXTRN EDT\$\$SC_POSCSIF
.EXTRN EDT\$\$SC_ERATOEOOL
.EXTRN EDT\$\$SC_REVID, EDT\$\$MSG_TOSTR
.EXTRN EDT\$\$G_MESSAGE_LINE
.EXTRN EDT\$\$G_TIN_ECHOPOS
.EXTRN EDT\$\$G_MSGFLG, EDT\$\$G_PRV_COL
.EXTRN EDT\$\$G_LASTMSG, EDT\$\$G_TI_TYP

.PSECT _EDT\$CODE,NOWRT, SHR, PIC,2

			001C	00000	.ENTRY	EDT\$\$OUT MSG, Save R2,R3,R4	: 0664
		54	00	9E	MOVAB	EDT\$\$G_LASTMSG, R4	
		53	00	9E	MOVAB	EDT\$\$G_TIN_ECHOPOS, R3	
	00000000G	00	00	FB	CALLS	#0, EDT\$\$STOP WKINGMSG	: 0731
50	00000000G	00	01	C1	ADDL3	#1, EDT\$\$G_MESSAGE_LINE, R0	: 0738
		50	04	AC	CMPL	POS, R0	
			09	12	BNEQ	1\$	
			63	D4	CLRL	EDT\$\$G_TIN_ECHOPOS	: 0741
	00000000G	00	01	D0	MOVL	#1, EDT\$\$G_MSGFLG	: 0742
		50	00	D0	MOVL	EDT\$\$G_TI_TYP, R0	: 0749
		03	50	D1	CMPL	R0, #3	
			1E	13	BEQL	2\$	
			50	D5	TSTL	R0	
			1A	13	BEQL	2\$	
			63	DD	PUSHL	EDT\$\$G_TIN_ECHOPOS	: 0755
		04	AC	DD	PUSHL	POS	
	00000000G	00	02	FB	CALLS	#2, EDT\$\$SC_POSCSIF	: 0759
	00000000G	00	00	FB	CALLS	#0, EDT\$\$SC_ERATOEOOL	: 0763
	00000000G	00	00	FB	CALLS	#0, EDT\$\$SC_REVID	: 0770
		10	AC	D5	TSTL	LEN	
			10	13	BEQL	3\$	
			0C	AC	MOVQ	ADDR, -(SP)	: 0773
	0000J000G	00	02	FB	CALLS	#2, EDT\$\$FMT_STR	: 0774
		64	01	D0	MOVL	#1, EDT\$\$G_LASTMSG	: 0770
			12	11	BRB	4\$: 0778
		52	08	AC	MOVL	MESS, R2	
				D0			

EDT\$CHMMESS
V04-000

EDT\$CHMMESS - output a message
EDT\$\$OUT_MSG - output a message

M 2
16-Sep-1984 00:04:03
14-Sep-1984 12:22:38

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMMESS.BLI;1 Page 6 (3)

00000000G	00	0C	13	00071	BEQL	4\$:	
		52	DD	00073	PUSHL	R2		:	0781
		01	FB	00075	CALLS	#1,	EDT\$\$MSG_TOSTR	:	
00000000G	64	52	DO	0007C	MOVL	R2,	EDT\$\$G_LASTMSG	:	0782
		00	FB	0007F	CALLS	#0,	EDT\$\$OOT_FMTBUF	:	0788
			04	00086	RET			:	0789

; Routine Size: 135 bytes, Routine Base: _EDT\$CODE + 0000

; 220 0790 1
; 221 0791 1 !<BLF/PAGE>

EDT\$CHMMESS
V04-000

EDT\$CHMMESS - output a message
EDT\$OUT_MSG - output a message

N 2
16-Sep-1984 00:04:03
14-Sep-1984 12:22:38

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMMESS.BLI;1 Page 7 (4)

: 223 0792 1 END
: 224 0793 1
: 225 0794 0 ELUDOM

! of module EDT\$CHMMES

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	135	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:CHMMESS/OBJ=OBJ\$:CHMMESS MSRC\$:CHMMESS.BLI/UPDATE=(ENH\$:CHMMESS)

: Size: 135 code + 0 data bytes
: Run Time: 00:11.9
: Elapsed Time: 00:15.0
: Lines/CPU Min: 4006
: Lexemes/CPU-Min: 10289
: Memory Used: 72 pages
: Compilation Complete

0132 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

